UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark C Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

80641

7590

04/30/2010

EXAMINER

PATEL, HETUL B

PAPER NUMBER

6930

ART UNIT 2186

DATE MAILED: 04/30/2010

Gard and Kaslow LLP One 1st Street, Suite 9 Los Altos, CA 94022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/608.724 06/26/2003 Andreas Gustafsson PA2271US TITLE OF INVENTION: SYSTEMS AND METHODS OF PROVIDING DNS SERVICES USING SEPARATE ANSWER AND REFERRAL CACHES

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional \$1510 \$300 \$1810 07/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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80641	7590 04/30	/2010	f	ave its own certificate	e of mailing or	transmission.	
Gard and Kasle One 1st Street, S Los Altos, CA 9	ow LLP Suite 9	2010	I S a t	Cer hereby certify that the tates Postal Service we ddressed to the Mai cansmitted to the USP	rtificate of Ma nis Fee(s) Tran with sufficient l Stop ISSUE TO (571) 273-	iling or Transı smittal is being postage for firs FEE address 2885, on the da	mission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTORNEY I	OOCKET NO.	CONFIRMATION NO.
10/608,724 TITLE OF INVENTION	06/26/2003 : SYSTEMS AND MET	HODS OF PROVIDING	Andreas Gustafsson DNS SERVICES USIN	IG SEPARATE ANS	PA22 WER AND RE		6930 THES
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	E FEE TOTA	AL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/30/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	ss			
PATEL, I	HETUL B	2186	711-118000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			(I) the names of up or agents OR, altern (2) the name of a si registered attorney 2 registered patent a listed, no name will	ngle firm (having as a por agent) and the nam ttorneys or agents. If be printed.	nt attorneys		
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on th T a substitute for filing (B) RESIDENCE: (CI	e patent. If an assign an assignment. TY and STATE OR (COUNTRY)		ocument has been filed for up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			o. Payment of Fee(s): (I A check is enclose Payment by credit The Director is her overpayment, to De	d. card. Form PTO-2038 eby authorized to cha	8 is attached.	d fee(s), any def	
5. Change in Entity Sta	tus (from status indicated		☐ b. Applicant is no	onger claiming SMA	LL ENTITY st	atus. See 37 CE	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark					e assignee or other party in
Typed or printed name							
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this buringinia 22313-1450. DC 113-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or retain a benefit by estimated to take 12 dividual case. Any co ficer, U.S. Patent and TO THIS ADDRES:	the public whice minutes to concomments on the Trademark Of S. SEND TO: O	ch is to file (and aplete, including e amount of tin fice, U.S. Depa Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete uttment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/608,724	06/26/2003		Andreas Gustafsson	PA2271US	6930	
80641	7590	04/30/2010		EXAM	INER	
Gard and Kaslow LLP			PATEL, HETUL B			
One 1st Street, Suite 9 Los Altos, CA 94022			ART UNIT	PAPER NUMBER		
				2186		
			DATE MAILED; 04/30/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 918 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 918 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
Nation of Allowahility	10/608,724			
Notice of Allowability	Examiner	Art Unit		
	HETUL PATEL	2186		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS	
1. \boxtimes This communication is responsive to <u>the BPAI decision ma</u>	niled 01/15/2010.			
2. X The allowed claim(s) is/are <u>1-29, 31-32 and 40-43; and the</u>	ey are renumbered as 1-10,12-15,17	,16,18-35 and 11, res	pectively.	
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.			
Copies of the certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		tion from the	
International Bureau (PCT Rule 17.2(a)).	cuments have been received in tills	national stage applica	don nom the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the red	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO	948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal F	(PTO-413),		
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amendi			
Paper No./Mail Date4.	_		awanac	
of Biological Material	8.	ent of Reasons for Allo	wance	
/HETUL PATEL/				
Primary Examiner, Art Unit 2186				
	1			

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DETAILED ACTION

1. This office action is in response to the decision from Board of Patent Appeals and Interferences (BPAI) mailed on 01/15/2010.

2. The Board of Patent Appeals and Interferences affirmed the rejection(s) against independent claim(s) 1, 26, 33 and 40, but reversed all rejections against claim(s) 2, 5, 29-30, 35, and 38-39 dependent thereon. There are no allowed claims in the application. The independent claim(s) is/are cancelled by the examiner in accordance with MPEP § 1214.06.

EXAMINER'S AMENDMENT

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Attorney V. Randall Gard (Reg. No. 33,886) on 04/22/2010.
- 5. The application has been amended as follows:

CLAIM 1 (Currently Amended):

A caching server comprising:

- an answer cache configured to access answer information through a flat data structure;
- a referral cache configured to store referral information; and
- computer instructions configured to translate a domain name into DNS
 information by examining the answer cache in a time that is essentially constant

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as a function of a number of labels comprising the domain name and essentially constant as a function of a size of the answer cache and, responsive to the results of examining the answer cache, examining the referral cache.

CLAIM 26 (Currently Amended):

A method of determining DNS information, the method comprising:

- receiving a request for DNS information corresponding to a domain name;
- examining an answer cache to find answer information, responsive to the received request, the answer cache including a flat data structure, wherein a time required to examine the answer cache is essentially constant as a function of a number of labels comprising the domain name and essentially constant as a function of a size of the answer cache; and
- responsive to the examination of the answer cache, searching a referral cache.

CLAIM 40 (Currently Amended):

A method of caching DNS information, the method comprising:

- requesting DNS information;
- receiving data in response to requesting DNS information;
- classifying the response received as an answer response or a referral response;
- storing the response received in either a referral cache or an answer cache based on the classification, the answer cache including a flat data structure;
- receiving a request for DNS information corresponding to a domain name;
- examining the answer cache to find answer information, responsive to the
 received request, wherein a time required to examine the answer cache is
 essentially constant as a function of a number of labels comprising the domain
 name and essentially constant as a function of a size of the answer cache; and
- responsive to the examination of the answer cache, searching the referral cache.

CLAIMS 30 and 33-39 (CANCELLED).

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Allowable Subject Matter

6. Claims 1-29, 31-32 and 40-43 are allowed; and they are renumbered as 1-10, 12-15, 17, 16, 18-35 and 11, respectively.

7. The following is an examiner's statement of reasons for allowance:

Upon further consideration, in view of BPAI decision mailed 01/15/2010, the claims are allowable in view of the cited prior art(s), whether taken alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HETUL PATEL whose telephone number is (571)272-4184. The examiner can normally be reached on 9:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim can be reached on 571-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HETUL PATEL/ Primary Examiner, Art Unit 2186